

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

NEW RIVER @ THE INTERNATIONAL BOUNDARY - CALEXICO, CALIFORNIA
FEBRUARY 2010 WATER QUALITY ANALYSES

FIELD MEASUREMENTS	YSI INSTRUMENT				HACH 2100P
TIME (HH:MM)	TEMP (°C) ¹	pH	DO (mg/l) ²	EC (μ mhos/cm) ³	TURBIDITY (NTU) ⁴
10:20 AM	16.45	7.81	6.9	6085	17.5

FIELD OBSERVATIONS:

10:20 AM Ambient Air Temp~70°F. Water color green. No foam. Slight sewer odor. Sky cloudy. Light breeze.

BACTERIAL ANALYSIS ATS LABORATORY IN BRAWLEY, CA.			CONCENTRATION (MPN/100ml) ⁵
TIME	STORET CODE	ANALYSIS METHOD	FECAL COLIFORM CONCENTRATION
10:20 AM	316315	Multiple Tube Fermentation	550,000

¹ Temperature is measured in units of degrees Celsius (°C)

² Dissolved oxygen (DO) is measured in units of milligrams per liter (mg/l)

³ Electrical conductivity (EC) is measured in units of micromhos per centimeter (μ mhos/cm)

⁴ Turbidity is measured in units of Nephelometer Turbidity Units (NTU). Field measurement

⁵ Fecal Coliform density is reported as the most probable number per 100 milliliters of water sample (MPN/100 ml). Two samples were taken, and the average is reported

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NUTRIENT ANALYSIS CDPH- SOUTHERN CALIFORNIA LABORATORY ⁶				
CONSTITUENT (GRAB)	STORET CODE	METHOD	REPORTING LIMIT	CONCENTRATION (mg/l) ⁷
MBAS	38260	SM 5540C	0.1	0.606
Total Phosphate	00665	EPA 365.4	0.5	0.953
O-Phosphate Phosphorous	00665	EPA 300.1	0.4	<RL ⁸
Phenol	32730	EPA 420.1	0.05	<RL
Cyanide	00720	SM 4500CN(E)	0.05	<RL
Ammonia - Nitrogen	00610	SM 4500	0.1	6.00
Nitrate - Nitrogen	71850	EPA 300.1	0.1	1.69
Nitrite - Nitrogen	00630	EPA 300.1	0.1	0.258
Hardness (as CaCO ₃)	00900	SM 2340C	1	1160
Total Alkalinity (CaCO ₃)	00410	SM 2320B	1	302
Bicarbonate	00440	SM 2320B	1	NR ⁹
Total Dissolved Solids	70300	EPA 160.1	10	4001
Total Suspended Solids	00530	EPA 160.2	10	30.5
Turbidity (NTU)	82078	EPA 180.1	0.1	16.4
BOD	00310	SM 5210B	2	34.9
COD	00340	SM 5220	1	66.1

⁶ California State Department of Public Health, Division of Drinking Water and Environmental Management, Sanitation & Radiation Laboratory (South) in Los Angeles, CA

⁷ These concentrations are reported in units of milligrams per liter (mg/l) except for turbidity, which is report in units of NTUs

⁸ Analysis results were reported as less than the Analytical Reporting Limit

⁹ Not reported

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METAL ANALYSIS CDPH – SOUTHERN CALIFORNIA LABORATORY				
CONSTITUENT (GRAB)	STORET CODE	METHOD	REPORTING LIMIT	CONCENTRATION (µg/l) ¹⁰
As-Arsenic	1002	EPA 200.8	1	4.70
Cd-Cadmium	1027	EPA 200.8	1	<RL
Cr-Chromium	1034	EPA 200.8	10	<RL
Cu-Copper	1042	EPA 200.8	50	<RL
Pb-Lead	1051	EPA 200.8	5	5.86
Se-Selenium	1147	EPA 200.8	5	6.52
Zn-Zinc	1092	EPA 200.8	50	84.8
Hg-Mercury	71900	EPA 200.8	1	<RL

¹⁰ These concentrations are reported in units of micrograms per liter (µg/l)